MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

DATE OF PREP

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

Section I

SIKKENS AEROSPACE FINISHES DIVISION

STREET ADDRESS

20846 S. NORMANDIE AVE. CITY STATE, AND ZIPCODE

TORRANCE, CA.

90502

EMERGENCYTELEPHONE NO. (213)320-6800

SIKKENS

PRODUCT CLASS

TRADE NAME

EPOXY, DPM 3591

MANUFACTURERS CODE IDENTIFICATION

Catalyst: X-304

Mix Ratio: 3 parts 443-3-243 (Base) to

1 part X-304 by volume.

Section II — HAZARDOUS INGREDIENTS

INGREDIENT 443-3-255(Base Only)	CAS NO.	PERCENT (Wt.)	т РРМ	LV mg/M ^s	LEL.	VAPOR PRESSURE
Methyl Ethyl Ketone Xylene Toluene Methyl Butyl Ketone Butyl Cellosolve Isopropyl Alcohol Methyl Isobutyl Ketone n-Butyl Acetate	78-93-3 1330-20-7 108-88-3 591-78-6 111-76-2 67-63-0 108-10-1 123-86-4	15-20 5-10 5-10 5-10 <5.0 <1.0 <1.0 <5.0	200 100 200 100 25-5 50 400 100 50		1.8 1.0 1.2 1.2 1.1 2.5 1.4	70.0 7.0 22.0 10.0 1.0 33.0 15.0 8.0

Section III - PHYSICAL DATA

BOILING RANGE

176-340° F.

VAPOR DENSITY

HEAVIER

LIGHTER, THAN AIR

EVAPORATION RATE

FASTER

X SLOWER, THAN ETHER

PERCENT VOLATILE

WEIGHT PER 61.1%

8.1 lbs.

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY

Red Label, Flammable

(Min) **FLASH POINT**

Tag Closed Cup

LEL 1.0

EXTINGUISHING MEDIA

Exclude air-Use foam, CO2, steam, water dry chemicals. Do not uśe water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with a upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water to cool fire exposed surfaces and to protect personnel.

Section V — HEALTH HAZARD DATA
тняєзного сіміт value : See Section II еггествог оvенехрозине: Headache, nausea, dizziness. Breathing vapor will be
irritating to nose, throat and eyes.
ACTOR OF A CONTRACT BY CONTRACT BY VIOLENCE OF A CONTRACT
EMERGENCYAND FIRST AID PROCEDURES Skin Exposure: Wash affected area with soap & water. Eye Exposure: Flush with water for at least 15 minutes, consult physician. Ingestion: Consult physician immediately. Inhalation: Remove victim to fresh air, consult physician.
Section VI — REACTIVITY DATA
STABILITY UNSTABLE
Section VII — SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fume from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash waste DISPOSAL METHOD area with detergent & water. Consult disposal expert & ensure conformity with local regulations.
Section VIII — SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION: Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area. Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION Face velosity) 60 fpm in confined area.

Chemically resistent gloves.

Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Material is sensitive to moisture and should be kept in tightly closed containers.

OTHER PRECAUTIONS

All handling equipment should be electrically grounded. Treat as a very flammable liquid.

Technical Administrative Manager

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

Section I

CITY, STATE, AND ZIP CODE

MANUFACTURER'S NAME

SIKKENS AEROSPACE FINISHES DIVISION

STREET ADDRESS

20846 S. NORMANDIE AVE.

TORRANCE, CA.

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS AMINE

MANUFACTURERS CODE IDENTIFICATION

TRADENAME SIKKENS

Catalyst for 443-3-Series; 3 parts base to 1 part X-304. 453-1000 Series; 4 parts base to 1 part X-304. 463-3-Series; 4 parts base to 1 part X-304.

Section II - HAZARDOUS INGREDIENTS

INGREDIENT X-304 EPOXY CATALYST*	CAS NO.	PERCENT (Wt.)	TLV mg/M³	LEL state of	VAPOR PRESSURE
Methyl Ethyl Ketone Butyl Alcohol Butyl Acetate Butyl Cellosolve Toluene	78-93-3 71-36-3 123-86-4 111-76-2 108-88-3	25-30 20-25 20-25 10-15 5-10	200 100 C50 150 50 200 VOO	1.8 1.7 1.7 1.1 1.2	70 4 8 1
*X-304 may also contain a minor amount of diethylene triamine(DETA) ACGIH, TWA	111–40–0		1.0		

Section III - PHYSICAL DATA

176-340° F. **BOILING RANGE**

VAPOR DENSITY

X HEAVIER

LIGHTER, THAN AIR

EVAPORATION RATE FASTER X SLOWER, THAN ETHER

WEIGHT PER

7.1 1bs.

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOTCATEGORVed Label, Flammable

Tag Closed

Cup

EXTINGUISHING MEDIA

Exclude air-Use foam, CO2, steam, wate

dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with

upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray to cool fire exposed surfaces and to protect

Section V — HEALTH HAZARD DATA See Section II THRESHOLD LIMIT VALUE **EFFECTS OF OVEREXPOSURE** Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat, and eyes. EMERGENCY AND FIRST AID PROCEDURES . Skin Exposure: Wash affected area with soap and Eye Exposure: Flush with water for at least 15 minutes, consult physician. Ingestion: Consult physician immediately. Inhalation: Remove victim to fresh air, consult physician. Section VI — REACTIVITY DATA XX STABLE CONDITIONS TO AVOID Storage at high temperatures. INCOMPATABILITY (Materials to avoid) Strong oxidizing agents. Sparks & open flame. HAZARDOUS DECOMPOSITION PRODUCTS On combustion CO, CO2, Aldehydes and other organics, oxides of nitrogen. HAZARDOUS POLYMERIZATION MAY OCCUR CONDITIONS TO AVOID Section VII — SPILL OR LEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fumes Prevent liquied from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without wastedsposal Method hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water. Consult disposal expert and ensure conformity with local regulations. Section VIII — SPECIAL PROTECTION INFORMATION RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non ventilated area. Mechanical: Explosion-proof ventilation equipment. No smoking or open lights. ventilation: Face velosity > 60fpm in confined area. PROTECTIVE GLOVES Chemically resistant gloves. EYE PROTECTION Chemical splash goggles or face shield. OTHER PROTECTIVE EQUIPMENT Eye bath & Safety shower. Section IX — SPECIAL PRECAUTIONS PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed when not in use. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied -these OTHER PRECAUTIONS containers retain product residues (vapor, liquid, etc.). All handling equipment should be electrically grounded. Treat as a very flammable liquid.

Technical Administrative Manager